

J. BRADLEY SHEPHERD, JR. P.E.

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CURRENT STATUS

1994- Present: President, J. B. Shepherd, & Associates, Inc., 110 Bushnell Plaza, Bushnell, FL 33513; Professional and forensic engineering consulting services

PROFESSIONAL SERVICE S

Case preparation and expert testimony pertaining to: Electrical power transmission, distribution and service; overhead and underground electrical power distribution system design and installation. Lightning protection. Safety program assessment and effectiveness evaluation, accident prevention, National Electrical Safety Code (NESC), National Electrical Code (NEC). System fault protection and public safety. Accident investigation; accident prevention programs. Eminent Domain. Insurance loss investigation and evaluation, property damage, personal injury, lightning and other perils affecting electrical, electronic and electro-mechanical equipment. Project coordination and supervision; Forensic engineering and failure analysis; Consultation, arbitration and mediation services; Construction contracts, labor relations and collective bargaining agreements; Utility right-of-way utilization. Electrical engineering consulting services; Transmission and distribution planning, citing, design evaluation and construction inspection; Commercial and industrial electrical design evaluation; Overhead to underground cost differential analysis; Distribution construction standards; Lighting design and evaluation of illumination levels; Contract negotiation and administration.

PROFESSIONAL QUALIFICATIONS

Registered Professional Engineer; Florida #11183, Texas #86600, Alabama #28221-E
Board Certified Diplomate in Forensic Engineering by National Academy of Forensic Engineers (NAFE®), program accredited by the Council of Engineering and Scientific Specialty Boards.
Certified Administrator, Assessment Center method of Behavioral Analysis
Determined "most qualified" to serve as a Commissioner by the Florida Public Service Commission Nominating Council
Experienced litigation support, forensic examination and/or expert witness in over 175 completed legal matters and in over 200 additional completed investigations that were not litigated.

E DUCATION

University of Florida; Awarded Bachelor of Electrical Engineering, 1965
Rollins College, Crummer School of Business; Master of Business Administration, 1986
National Academy of Forensic Engineers, Seminar series, 1989 - 2002
Home Builder's Institute, Inc. Seminar 1994
Florida Engineering Society, Continuing Education Series; Forensic Engineering seminar, 1996;
Law and Ethics for Engineers, 2000, 2001, 2002, 2003, 2004
Texas Board of Engineers; Statutes, Codes and Ethics for Professional Engineers, 2000
Georgia Institute of Technology; Public Utility Executive Course;
Electric Utility Distribution Grounding & Transients, 2003
Power System Relaying Theory and Application, 2004
Holt Enterprises, Grounding and Bonding Seminar 2005
University of Georgia; Utility Executive Management Course
U. S. Naval Training Center, Great Lakes, IL., Electrician School, 1957
Legal Research Network, Expert Witness and Litigation Seminar, 1997
Global Atmospheric Lightning Seminar, 2000
NAFE® Forensic Engineering Seminar, 2002, 2007, 2009
NAFE® Rights and Responsibilities of the Forensic Engineering Expert witness, 2007
IEEE/NFPA Seminar on application of NFPA-70E to electric Utilities, 2006

EMPLOYMENT HISTORY

1994 - Present: President, J. B. Shepherd & Associates, Inc.

1998-1999: Forensic Technologies International aka FTI Consulting, Inc., 2021 Research Drive, Annapolis, MD 21401; Regional Manager, professional and forensic engineering services; Also insurance consulting, electrical damage claims, through FTI subsidiary LWG, Inc.

1996-1997: Relectronic-Remech, subsidiary Siemens Corporation; 2300 Fourth St., Atlanta, GA.; Insurance consulting, electrical damage claims, forensic investigations and failure/restoration analysis

1995: Active Electric Supply, Orlando, Florida; Account executive and electrical engineering consultant, product applications, lighting and motor controls.

1979-1994: Florida Power Corporation, P.O. Box 417, Winter Park, FL 32790; Retired effective November 1, 1994; Manager, Engineering and Operations, 1979-1994. Overall responsibility for the planning, design, construction, operation and maintenance of the distribution system and maintenance of transmission and substations in the Greater Orlando area including the cities of Winter Park, Apopka, Maitland, Casselberry, Longwood, Windermere, Ocoee, Deland and Clermont serving major industrial customers, hotels, attractions, the Orange County Convention Center, the Disney organization and residential subdivisions with individual home values to \$7 million. Responsible for Power Distribution plant in service valued at \$1.2 billion, serving 7,700 commercial, and 67,000 residential customers with a gross annual revenue of \$134 million. Staff levels varying to 32 management, 17 office & technical, 115 union and 62 contract employees. Management responsibility included hiring, training, directing, supervising, evaluating, career planning. New business analysis and territorial negotiations. Administered Safety training and evaluation. Member corporate accident investigation prevention committee. Member corporate design and constructions standards committees. Administrator, IBEW collective bargaining agreement and \$8 million annual underground and overhead construction contracts. Budget for and administer annual tree trimming contracts. Claims investigation and case preparation, public contact, property damage, easements and condemnation action. Member Planning and Substation Site Selection Committees. Customer service agreements and franchise negotiations. Annual operating budget to \$18 million. Active in local civic, social, community and political affairs.

1965-1979: Tampa Electric Company, P. O. Box 111, Tampa, FL 33601; Manager, System Distribution Engineering, 1975-1979. Supervision of system-wide distribution engineering department; Plan and design major construction projects; oversee the preparation and publication of corporate policy, technical and standards manuals; represent the corporation before The Florida Public Service Commission on underground cost analysis and matters pertaining to rates, procedures and policies. Expert testimony, personal injury claims for 13,000 volt electrical contact. Extensive lightning protection research. Project manager and coordinator, worldwide lightning research studies and experiments. Contract administration and supervision, line construction, trenching and tree trimming. Develop and host area one-call notification center. Manager, Construction Standards, 1973-1975, Responsible for the design and evaluation of overhead and underground distribution construction methods, and the specification, purchase and evaluation of materials and equipment for the distribution system. Established corporate tree trimming standards. Department produced the Construction Standards and Materials Specifications manuals. Superintendent, Western Service Area, 1971-1973. Supervision over field engineering, line construction, stores, fleet, tool repair, metering, and service personnel. Division Engineer, 1968-1971. Supervision over field engineering, meter operations, stores, fleet, dispatching and service restoration. Performed fault studies and determined over-current fuse and relay settings. Administrative Assistant to the Executive Vice President, 1967-1968. Studied and recommended the realignment of service boundaries and the site selection, construction and staffing of additional physical facilities. Corporate representative on statewide utility coordinating committee; assisted in preparation and publication of Florida Utility Accommodations Guide. Staff Engineer, Standards department, 1965-1967. General engineering assignments in overhead and underground distribution design and cost analysis.

1959-1965: Full and part time employment in electrical engineering and contracting while attending University of Florida School of Engineering. Employers: Miller Electric Company, Jacksonville, Fl; Carlos M. Hope Electric Company, Gainesville, Fl; Vitro Services, Eglin AFB, Fl.

1956-1959: U. S. Navy; Electrician's Mate II, serving aboard the aircraft carrier USS Franklin D. Roosevelt, CVA-42, three submarines and a destroyer.

1955-1956: Miller Electric Company, Jacksonville, Fl; Part time and full time employment as electrical assistant and as job cost estimator.

INDUSTRY AND COMMUNITY ACTIVITIES

Edison Electric Institute - Past Chairman, Joint EEI/NEMA Task Force on Equipment, member Steering Committee
Southeastern Electric Exchange - Past Chairman of the Distribution, Fleet and Real Estate Section.
Institute of Electrical and Electronics Engineers (IEEE®) - Senior Life Member, Power Section; Special Member, Insulated Conductors Committee, Member IEEE Standards Association, IEEE Society on Social Implications of Technology. Instrumental in solving conductor treeing and neutral corrosion failures in high voltage underground cables 1960-80.
National Society of Professional Engineers; Florida Engineering Society- Served as advisor to the University of South Florida on developing the curriculum for Engineering Education.
National Academy of Forensic Engineers (NAFE®), elected a Fellow Member, 2002
American College of Forensic Examiners - Diplomate, Board of Forensic Engineering and Technology, 1998
Publications: T & D Magazine, April '79; August '78; Feature articles on underground distribution system design. Work in progress: Author of management market publication in progress, "(What ever happened to) Trust Management".
Carrollwood Civic Association - Past President, Chairman of the Board, community of over 3000 residents and businesses.
Rotary International - Paul Harris Fellow; Past President of Tampa and Altamonte Springs Clubs. Awarded Governors plaque for distinguished club service. Rotarian for over 30 years
Sertoma Club - Past Director three years
Tampa Christian Academy - Past Director
Valencia Community College - Past Member, industry advisory committee on technical curriculum (past)
Greater Orlando Chamber of Commerce - Goals 2000; Arts, Culture and Recreation committee (past)
Habitat for Humanity - Organized FPC employees to build homes for needy families.
Central Florida Hotel/Motel association - Associate member (past)
Orlando/Orange County Convention and Visitor's Bureau - Associate member (past)
Captain, Marine Vessels, U.S. Coast Guard licensed Master to Fifty Tons, U.S. and Caribbean waters
Director of Public Works (Honorary) and Past Board Member, Town of Gotha, Fla. (Unincorporated)
Florida State Fire Inspector's Association
National Fire Protection (NFPA)
National Association of Fire Investigators, Past Member
Master Mason, Masonic Lodge # 30, F. & A. M. Scottish Rite 32nd Degree, Valley of Ocala, Florida
Member Sumter County Zoning and Adjustment Board
Sumter County Engineering Review Committee
Guest Lecturer, Electric Distribution Technology, Employ Florida Banner Center for Energy

AVOCATIONAL INTERESTS

Central Florida Offshore Anglers and Conservation Association - Director three years
Florida Conservation Association and Coastal Conservation Association, past member
Orange County Trap and Skeet Club; Orange County Sportsman's Assoc.; Blackwater Hunt Club; Safari Club International; TM Ranch Sporting Clays Club; Eustis Gun Club; Magnolia Hunt Club
Amateur Trapshooting Association; National Wild Turkey Federation; Magnolia Hunt Club
Amateur machinist, home machine shop, Amateur photography, Antique tractor restoration
Computer and electronics assembly and repair; welding, forging, grinding and heat treatment; Voting
Member Knifemakers Guild and Florida Knifemakers Association.
Genealogy research and publication

Personal references, litigation history and Client list available on request